Testing Java Microservices

Hands-On Enterprise Java Microservices with Eclipse MicroProfilePlaying with Java Microservices on Kubernetes and OpenShiftSpring: Microservices with Spring BootMastering Microservices with Java 9Microservices with Spring Boot 3 and Spring CloudMicroservices with Spring Boot and Spring CloudMicroservices Best Practices for JavaMicroservices with Spring Boot and Spring CloudMicroservices PatternsHands-On Cloud-Native Microservices with Jakarta EEHands-On Microservices with Spring Boot and Spring CloudMastering Microservices with JavaCloud Native Microservices with Spring and KubernetesMastering Microservices with JavaKubernetes Native Microservices with Quarkus and MicroProfileMicroservices Design Patterns with JavaPractical Microservices Architectural PatternsSpring 5.0 MicroservicesSRE with Java MicroservicesEnterprise Java Microservices Cesar Saavedra Nebrass Lamouchi Ranga Rao Karanam Sourabh Sharma Magnus Larsson Magnus Larsson Michael Hofmann Magnus Larsson Chris Richardson Luigi Fugaro Magnus Larsson Sourabh Sharma Rajiv Srivastava Sourabh Sharma John Clingan Sergey Seroukhov Binildas Christudas Rajesh R V Jonathan Schneider Kenneth Finnigan

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Sergey Seroukhov Binildas Christudas Rajesh R V Jonathan Schneider Kenneth Finnigan

an effective guide to designing building and deploying enterprise java microservices with eclipse microprofile key featurescreate cloud native microservices with ease using this detailed guideavoid vendor lock in when implementing microservices using eclipse microprofilediscover why microprofile is a great specification for building microservices in multi cloud environmentsbook description eclipse microprofile has gained momentum in the industry as a multi vendor interoperable community driven specification it is a major disruptor that allows organizations with large investments in enterprise java to move to microservices without spending a lot on retraining their workforce this book is based on microprofile 2 2 however it will guide you in running your applications in microprofile 3 0 you ll start by understanding why microservices are important in the digital economy and how microprofile addresses the need for enterprise java microservices you ll learn about the subprojects that make up a microprofile its value proposition to organizations and developers and its processes and governance as you advance the book takes you through the capabilities and code examples of microprofile s subprojects config fault tolerance health check jwt propagation metrics and opentracing finally you ll be guided in developing a conference application using eclipse microprofile and explore possible scenarios of what s next in microprofile with jakarta ee by the end of this book you ll have gained a clear understanding of eclipse microprofile and its role in enterprise java microservices what you will learnunderstand why microservices are important in the digital economyanalyze how microprofile addresses the need for enterprise java microservicestest and secure your applications with eclipse microprofileget to grips with various microprofile capabilities such as openapi and typesafe rest clientexplore reactive programming with microprofile stream and messaging candidate apisdiscover and implement coding best practices using microprofilewho this book is for if you re a java developer who wants to create enterprise microservices this book is for you familiarity with java ee and the concept of microservices will help you get the most out of this book

playing with java microservices on kubernetes and openshift will teach you how to build and design microservices using java and the spring platform this book covers topics related to creating java microservices and deploy them to kubernetes and openshift traditionally java developers have been used to developing large complex monolithic applications the experience of developing and deploying monoliths has been always slow and painful this book will help

java developers to quickly get started with the features and the concerns of the microservices architecture it will introduce docker kubernetes and openshift to help them deploying their microservices the book is written for java developers who wants to build microservices using the spring boot cloud stack and who wants to deploy them to kubernetes and openshift you will be guided on how to install the appropriate tools to work properly for those who are new to enterprise development using spring boot you will be introduced to its core principles and main features thru a deep step by step tutorial on many components for experts this book offers some recipes that illustrate how to split monoliths and implement microservices and deploy them as containers to kubernetes and openshift the following are some of the key challenges that we will address in this book introducing spring boot cloud for beginners splitting a monolith using the domain driven design approach implementing the cloud microservices patterns rethinking the deployment process introducing containerization docker kubernetes and openshift by the end of reading this book you will have practical hands on experience of building microservices using spring boot cloud and you will master deploying them as containers to kubernetes and openshift

unlock the power of spring boot to build and deploy production ready microservices key features get to know the advanced features of spring boot in order to develop and monitor applications use spring cloud to deploy and manage microservices on the cloud look at embedded servers and deploy a test application to a paas cloud platform embedded with assessments that will help you revise the concepts you have learned in this book book description microservices helps in decomposing applications into small services and move away from a single monolithic artifact it helps in building systems that are scalable flexible and high resilient spring boot helps in building rest oriented production grade microservices this book is a quick learning guide on how to build monitor and deploy microservices with spring boot you ll be first familiarized with spring boot before delving into building microservices you will learn how to document your microservice with the help of spring rest docs and swagger documentation you will then learn how to secure your microservice with spring security and oauth2 you will deploy your app using a self contained http server and also learn to monitor a microservice with the help of spring boot actuator this book is ideal for java developers who knows the basics of spring programming and want to build microservices with spring boot this book is embedded with useful assessments that will help you revise the concepts you have learned in this book what you will learn use spring initializr to create a basic spring project build a basic microservice with spring boot implement caching and exception

handling secure your microservice with spring security and oauth2 deploy microservices using self contained http server monitor your microservices with spring boot actuator learn to develop more effectively with developer tools who this book is for this book is aimed at java developers who knows the basics of spring programming and want to build microservices with spring boot

master the art of implementing scalable microservices in your production environment with ease about this book use domain driven design to build microservices use spring cloud to use service discovery and registeration use kafka avro and spring streams for implementing event based microservices who this book is for this book is for java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level a reasonable knowledge level and understanding of core microservice elements and applications is expected what you will learn use domain driven design to design and implement microservices secure microservices using spring security learn to develop rest service development deploy and test microservices troubleshoot and debug the issues faced during development learning best practices and common principals about microservices in detail microservices are the next big thing in designing scalable easy to maintain applications it not only makes app development easier but also offers great flexibility to utilize various resources optimally if you want to build an enterprise ready implementation of the microservices architecture then this is the book for you starting off by understanding the core concepts and framework you will then focus on the high level design of large software projects you will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture using spring security you will secure microservices and test them effectively using rest java clients and other tools like rxjava 2 0 we ll show you the best patterns practices and common principals of microservice design and you ll learn to troubleshoot and debug the issues faced during development we ll show you how to design and implement reactive microservices finally we ll show you how to migrate a monolithic application to microservices based application by the end of the book you will know how to build smaller lighter and faster services that can be implemented easily in a production environment style and approach this book starts from the basics including environment setup and provides easy to follow steps to implement the sample project using microservices

create and deploy production grade microservices based applications with this latest edition updated to spring boot 3 java 17 and spring cloud 2022 purchase of the print or kindle book includes a free pdf ebook key features build cloud native production ready microservices and stay ahead of the curve understand the challenges of building large scale microservice architectures learn how to get the best out of the latest updates including spring boot 3 spring cloud kubernetes and istio book descriptionlooking to build and deploy microservices but not sure where to start check out microservices with spring boot 3 and spring cloud third edition with a practical approach you ll begin with simple microservices and progress to complex distributed applications learn essential functionality and deploy microservices using kubernetes and istio this book covers java 17 spring boot 3 and spring cloud 2022 java ee packages are replaced with the latest jakarta ee packages code examples are updated and deprecated apis have been replaced providing the most up to date information gain knowledge of spring s aot module observability distributed tracing and helm 3 for kubernetes packaging start with docker compose to run microservices with databases and messaging services progress to deploying microservices on kubernetes with istio explore persistence resilience reactive microservices and api documentation with openapi learn service discovery with netflix eureka edge servers with spring cloud gateway and monitoring with prometheus grafana and the efk stack by the end you ll build scalable microservices using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth 2 1 oidc and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices with kubernetes apply istio for improved security observability and traffic management write and run automated microservice tests with junit test containers gradle and bash use spring aot and graalvm to native compile the microservices use micrometer tracing for distributed tracing who this book is forif you re a java or spring boot developer learning how to build microservice landscapes from scratch then this book is for you to get started you need some prior experience in building apps with java or spring boot

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microservices is an architectural style in which large complex software applications are composed of one or more smaller services each of these microservices focuses on completing one task that represents a small business capability these microservices can be developed in any programming language this ibm redbooks publication covers microservices best practices for java it focuses on creating cloud native applications using the latest version of ibm websphere application server liberty ibm bluemix and other open source frameworks in the microservices ecosystem to highlight microservices best practices for java

a step by step guide to creating and deploying production quality microservices based applications key featuresbuild

cloud native production ready microservices with this comprehensively updated guideunderstand the challenges of building large scale microservice architectureslearn how to get the best out of spring cloud kubernetes and istio in combinationbook description with this book you ll learn how to efficiently build and deploy microservices this new edition has been updated for the most recent versions of spring java kubernetes and istio demonstrating faster and simpler handling of spring boot local kubernetes clusters and istio installation the expanded scope includes native compilation of spring based microservices support for mac and windows with wsl2 and an introduction to helm 3 for packaging and deployment a revamped security chapter now follows the oauth 2 1 specification and makes use of the newly launched spring authorization server from the spring team starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their apis using openapi you ll understand how fundamental design patterns are applied to add important functionality such as service discovery with netflix eureka and edge servers with spring cloud gateway you ll learn how to deploy your microservices using kubernetes and adopt istio you ll explore centralized log management using the elasticsearch fluentd and kibana efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be confident in building microservices that are scalable and robust using spring boot and spring cloud what you will learnbuild reactive microservices using spring bootdevelop resilient and scalable microservices using spring clouduse oauth 2 1 oidc and spring security to protect public apisimplement docker to bridge the gap between development testing and productiondeploy and manage microservices with kubernetesapply istio for improved security observability and traffic managementwrite and run automated microservice tests with junit testcontainers gradle and bashwho this book is for if you are a java or spring boot developer who wants to learn how to build microservice landscapes from scratch this book is for you no familiarity with microservices architecture is required

a comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems tim moore lightbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in java key features 44 design patterns for building and deploying microservices applications drawing on decades of unique experience from author and microservice architecture pioneer chris richardson a pragmatic approach to the benefits and the drawbacks of microservices architecture solve service decomposition transaction management and inter service communication purchase of the

print book includes a free ebook in pdf kindle and epub formats from manning publications about the book microservices patterns teaches you 44 reusable patterns to reliably develop and deploy production quality microservices based applications this invaluable set of design patterns builds on decades of distributed system experience adding new patterns for composing services into systems that scale and perform under real world conditions more than just a patterns catalog this practical guide with worked examples offers industry tested advice to help you design implement test and deploy your microservices based application what you will learn how and why to use microservices architecture service decomposition strategies transaction management and querying patterns effective testing strategies deployment patterns this book is written for written for enterprise developers familiar with standard enterprise application architecture examples are in java about the author chris richardson is a java champion a javaone rock star author of manning s pojos in action and creator of the original cloudfoundry com table of contents escaping monolithic hell decomposition strategies interprocess communication in a microservice architecture managing transactions with sagas designing business logic in a microservice architecture developing business logic with event sourcing implementing queries in a microservice architecture external api patterns testing microservices part 1 testing microservices part 2 developing production ready services deploying microservices refactoring to microservices

discover how cloud native microservice architecture helps you to build dynamically scalable applications by using the most widely used and adopted runtime environments key featuresbuild robust cloud native applications using a variety of toolsunderstand how to configure both amazon services aws and docker clouds for high availabilityexplore common design patterns used in building and deploying microservices architecture book description businesses today are evolving rapidly and developers now face the challenge of building applications that are resilient flexible and native to the cloud to achieve this you ll need to be aware of the environment tools and resources that you re coding against the book will begin by introducing you to cloud native architecture and simplifying the major concepts you ll learn to build microservices in jakarta ee using microprofile with thorntail and narayana lra you ll then delve into cloud native application x rays understanding the microprofile specification and the implementation testing of microservices as you progress further you ll focus on continuous integration and continuous delivery in addition to learning how to dockerize your services you ll also cover concepts and techniques relating to security monitoring and troubleshooting problems

that might occur with applications after you ve written them by the end of this book you will be equipped with the skills you need to build highly resilient applications using cloud native microservice architecture what you will learnintegrate reactive principles in microprofile microservices architectureexplore the 12 factors app paradigm and its implicationsget the best out of java versions 8 and 9 to implement a microservice based on thorntailunderstand what openshift is and why it is so important for an elastic architecturebuild a linux container image using docker and scale the application using kubernetesimplement various patterns such as circuit breaker and bulkheadsget to grips with the devops methodology using continuous integration ci and continuous deployment cd who this book is for this book is for developers with basic knowledge of java ee and http based application principles who want to learn how to build test and scale java ee microservices no prior experience of writing microservices in java ee is required

apply microservices patterns to build resilient and scalable distributed systems key features understand the challenges of building large scale microservice landscapes build cloud native production ready microservices with this comprehensive guide discover how to get the best out of spring cloud kubernetes and istio when used together book descriptionmicroservices architecture allows developers to build and maintain applications with ease and enterprises are rapidly adopting it to build software using spring boot as their default framework with this book you ll learn how to efficiently build and deploy microservices using spring boot this microservices book will take you through tried and tested approaches to building distributed systems and implementing microservices architecture in your organization starting with a set of simple cooperating microservices developed using spring boot you ll learn how you can add functionalities such as persistence make your microservices reactive and describe their apis using swagger openapi as you advance you ll understand how to add different services from spring cloud to your microservice system the book also demonstrates how to deploy your microservices using kubernetes and manage them with istio for improved security and traffic management finally you ll explore centralized log management using the efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be able to build microservices that are scalable and robust using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable microservices using spring cloud use oauth 2 0 oidc and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices using kubernetes apply istio for improved security observability and traffic management who this book

is for this book is for java and spring developers and architects who want to learn how to break up their existing monoliths into microservices and deploy them either on premises or in the cloud using kubernetes as a container orchestrator and istio as a service mesh no familiarity with microservices architecture is required to get started with this book

build and deploy scalable cloud native microservices using the spring framework and kubernetes key features complete coverage on how to design build run and deploy modern cloud native microservices includes numerous sample code exercises on microservices spring and kubernetes develop a stronghold on kubernetes spring and the microservices architecture complete guide of application containerization on kubernetes containers coverage on managing modern applications and infrastructure using observability tools description the main objective of this book is to give an overview of cloud native microservices their architecture design patterns best practices real use cases and practical coverage of modern applications this book covers a strong understanding of the fundamentals of microservices api first approach testing observability api gateway service mesh and kubernetes alternatives of spring cloud this book covers the implementation of various design patterns of developing cloud native microservices using spring framework docker and kubernetes libraries it covers containerization concepts and hands on lab exercises like how to build run and manage microservices applications using kubernetes after reading this book the readers will have a holistic understanding of building running and managing cloud native microservices applications on kubernetes containers what you will learn learn fundamentals of microservice and design patterns learn microservices development using spring boot and kubernetes learn to develop reactive event driven and batch microservices perform end to end microservices testing using cucumber implement api gateway authentication authorization load balancing caching rate limiting learn observability and monitoring techniques of microservices who this book is for this book is for the spring developers microservice developers cloud engineers devops consultants technical architect and solution architects who have some familiarity with application development docker and kubernetes containers table of contents 1 overview of cloud native microservices 2 microservice design patterns 3 api first approach 4 build microservices using the spring framework 5 batch microservices 6 build reactive and event driven microservices 7 the api gateway security and distributed caching with redis 8 microservices testing and api mocking 9 microservices observability 10 containers and kubernetes overview and architecture 11 run microservices on kubernetes 12 service

mesh and kubernetes alternatives of spring cloud

master the art of implementing scalable and reactive microservices in your production environment with java 11 key featuresuse domain driven designs to build microservicesexplore various microservices design patterns such as service discovery registration and api gatewayuse kafka avro and spring streams to implement event based microservicesbook description microservices are key to designing scalable easy to maintain applications this latest edition of mastering microservices with java works on java 11 it covers a wide range of exciting new developments in the world of microservices including microservices patterns interprocess communication with grpc and service orchestration this book will help you understand how to implement microservice based systems from scratch you ll start off by understanding the core concepts and framework before focusing on the high level design of large software projects you ll then use spring security to secure microservices and test them effectively using rest java clients and other tools you will also gain experience of using the netflix oss suite comprising the api gateway service discovery and registration and circuit breaker additionally you ll be introduced to the best patterns practices and common principles of microservice design that will help you to understand how to troubleshoot and debug the issues faced during development by the end of this book you ll have learned how to build smaller lighter and faster services that can be implemented easily in a production environment what you will learnuse domain driven designs to develop and implement microservicesunderstand how to implement microservices using spring bootexplore service orchestration and distributed transactions using the sagasdiscover interprocess communication using representational state transfer rest and eventsgain knowledge of how to implement and design reactive microservicesdeploy and test various microserviceswho this book is for this book is designed for java developers who are familiar with microservices architecture and now want to effectively implement microservices at an enterprise level basic knowledge and understanding of core microservice elements and applications is necessary

build fast efficient kubernetes based java applications using the quarkus framework microprofile and java standards most popular java frameworks like spring were designed long before the advent of kubernetes and cloud native systems a new generation of tools including quarkus and microprofile have been cloud native and kubernetes aware from the beginning kubernetes native microservices with quarkus and microprofile teaches you how to create efficient

enterprise java applications that are easy to deploy maintain and expand in kubernetes native microservices with quarkus and microprofile you ll learn how to deploy enterprise java applications on kubernetes develop applications using the quarkus runtime framework compile natively using graalvm for blazing speed create efficient microservices applications take advantage of microprofile specifications

java microservices the ultimate pattern guide key features covers 70 java microservices patterns in detail practical code examples for immediate application strategies from architecture to deployment explained description microservices a popular software architecture style breaks down applications into small independent services built with java a versatile and widely used programming language this book serves as a roadmap for mastering design patterns that solve common problems encountered during microservices development in java start with microservices setup for team success discover various architectural styles and communication approaches for seamless service interaction learn effective data management within microservices acquire skills for handling unforeseen scenarios in transactions and crafting secure apis for user service access lastly grasp crucial monitoring testing and deployment practices to identify and address issues ensuring smooth production deployment microservices design patterns with java positions itself as an indispensable tool in the arsenal of today s software professionals it not only aids in navigating the complexities of microservices architecture but also enhances the reader s ability to deliver robust high quality software solutions efficiently what you will learn architect scalable resilient microservices using java based design patterns implement efficient communication and data management strategies within microservices design secure robust external apis for microservices integration and interaction monitor and maintain microservices with advanced logging tracing and health checks deploy microservices with docker kubernetes and serverless platforms effectively automate ci cd pipelines for microservices for streamlined development and deployment who this book is for this book is for seasoned microservices developers seeking to expand their repertoire of design patterns and practices as well as for newcomers looking for comprehensive guidance on patterns and practices throughout the entire development lifecycle it is tailored for architects developers team leads and devops engineers table of contents 1 defining product vision and organization structure 2 architecting microservices systems 3 organizing and documenting code 4 configuring microservices 5 implementing communication 6 working with data 7 handling complex business transactions 8 exposing external apis 9 monitoring microservices 10 packaging microservices 11 testing microservices

12 scripting environments 13 automating ci cd pipelines 14 assembling and deploying products

take your distributed applications to the next level and see what the reference architectures associated with microservices can do for you this book begins by showing you the distributed computing architecture landscape and provides an in depth view of microservices architecture following this you will work with cqrs an essential pattern for microservices and get a view of how distributed messaging works moving on you will take a deep dive into spring boot and spring cloud coming back to cqrs you will learn how event driven microservices work with this pattern using the axon 2 framework this takes you on to how transactions work with microservices followed by advanced architectures to address non functional aspects such as high availability and scalability in the concluding part of the book you develop your own enterprise grade microservices application using the axon framework and true base transactions while making it as secure as possible what you will learn shift from monolith architecture to microservices work with distributed and acid transactions build solid architectures without two phase commit transactions discover the high availability principles in microservices who this book is for java developers with basic knowledge of distributed and multi threaded application architecture and no knowledge of spring boot or spring cloud knowledge of cqrs and event driven architecture is not mandatory as this book will cover these in depth

a practical comprehensive and user friendly approach to building microservices in spring about this book update existing applications to integrate reactive streams released as a part of spring 5 0 learn how to use docker and mesos to push the boundaries and build successful microservices upgrade the capability model to implement scalable microservices who this book is for this book is ideal for spring developers who want to build cloud ready internet scale applications and simple restful services to meet modern business demands what you will learn familiarize yourself with the microservices architecture and its benefits find out how to avoid common challenges and pitfalls while developing microservices use spring boot and spring cloud to develop microservices handle logging and monitoring microservices leverage reactive programming in spring 5 0 to build modern cloud native applications manage internet scale microservices using docker mesos and marathon gain insights into the latest inclusion of reactive streams in spring and make applications more resilient and scalable in detail the spring framework is an application framework and inversion of the control container for the java platform the framework s core features can be used by any java

application but there are extensions to build web applications on top of the java ee platform this book will help you implement the microservice architecture in spring framework spring boot and spring cloud written to the latest specifications of spring that focuses on reactive programming you ll be able to build modern internet scale java applications in no time the book starts off with guidelines to implement responsive microservices at scale next you will understand how spring boot is used to deploy serverless autonomous services by removing the need to have a heavyweight application server later you ll learn how to go further by deploying your microservices to docker and managing them with mesos by the end of the book you will have gained more clarity on the implementation of microservices using spring framework and will be able to use them in internet scale deployments through real world examples style and approach the book takes a step by step approach on developing microservices using spring framework spring boot and a set of spring cloud components that will help you scale your applications

in a microservices architecture the whole is indeed greater than the sum of its parts but in practice individual microservices can inadvertently impact others and alter the end user experience effective microservices architectures require standardization on an organizational level with the help of a platform engineering team this practical book provides a series of progressive steps that platform engineers can apply technically and organizationally to achieve highly resilient java applications author jonathan schneider covers many effective sre practices from companies leading the way in microservices adoption you ll examine several patterns discovered through much trial and error in recent years complete with java code examples chapters are organized according to specific patterns including application metrics monitoring for availability with micrometer debugging with observability logging and distributed tracing failure injection testing charting and alerting building effective charts kpis for java microservices safe multicloud delivery spinnaker deployment strategies and automated canary analysis source code observability dependency management api utilization and end to end asset inventory traffic management concurrency of systems platform gateway and client side load balancing

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when you build them from small simple components java developers now enjoy a wide range of tools that support microservices application development including right sized app servers open source frameworks and well defined patterns best of all you can build microservices applications using your existing java skills about the book enterprise java microservices teaches you to design and build jvm based microservices applications you ll start by learning how microservices designs compare to traditional java ee applications always practical author ken finnigan introduces big picture concepts along with the tools and techniques you ll need to implement them you ll discover ecosystem components like netflix hystrix for fault tolerance and master the just enough application server jeas approach to ensure smooth operations you ll also examine monitoring security testing and deploying to the cloud what s inside the microservices mental model cloud native development strategies for fault tolerance and monitoring securing your finished applications about the reader this book is for java developers familiar with java ee about the author ken finnigan leads the thorntail project at red hat which seeks to make developing microservices for the cloud with java and java ee as easy as possible table of contents part 1 microservices basics enterprise java microservices developing a simple restful microservice just enough application server for microservices microservices testing cloud native development part 2 implementing enterprise java microservices consuming microservices discovering microservices for consumption strategies for fault tolerance and monitoring securing a microservice architecting a microservice hybrid data streaming with apache kafka

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